

The Stream Line

On Kentucky's State Revolving Fund (SRF) Program

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Contact Information

Shafiq Amawi
Division of Water (DOW)
200 Fair Oaks Lane
4th Floor
Frankfort, KY 40601
502-564-3410, ext. 4961
Fax: 502-564-9003
E-mail:
Shafiq.amawi@ky.gov
water.ky.gov

Sandy Williams
Kentucky Infrastructure
Authority (KIA)
1024 Capital Center Drive
Suite 340
Frankfort, KY 40601
502-573-0260
Fax: 502-573-0157
kia.ky.gov

2012 CWSRF and DWSRF new funding year has begun

The 2012 Clean Water State Revolving Fund (CWSRF) and Drinking Water State Revolving Fund (DWSRF) Intended Use Plans (IUPs) have been finalized and invitation letters have been sent.

The public meeting for the CWSRF and DWSRF IUPs was Aug. 5, 2011. The meeting followed a 30-day public comment period when interested parties could review the list and make comments before the lists were finalized.

Those on the ranked list of pro-

jects (the project priority list in the IUPs) have been invited by letter to apply (in rank order) for 2012 SRF funding. For those who have received invitation letters, the due date to submit applications is Sept. 8.

The 2012 funding includes the requirement that Davis-Bacon federal wage rates be used in all eligible projects receiving SRF funding. It also requires that 20 percent of the capitalization grant must be used to fund green projects.

The call for projects period for 2013 funding is tentatively set for October to December 2011.

Only projects submitted during the Call for Projects period are considered in the ranking process.

For more information or updates on the 2012 funding cycle or on how to submit a project for the upcoming 2013 call for projects period, check the DOW web site (water.ky.gov) or the KIA web site (kia.ky.gov).

2013 SRF ranking criteria updated

Clean water and drinking water infrastructure projects submitted for the 2013 SRF funding cycle will be reviewed using some new ranking criteria.

Under the National State Revolving Fund Program, states are given the authority to implement their loan programs in a manner that reserves a high degree of flexibility to operate their programs in accordance with each state's unique needs and circumstances. As a result, states have developed their own methods for prioritizing projects to receive SRF funds.

Kentucky uses a project priority ranking system, which consists of a list of criteria and associated point structure. Each project submitted for funding is evaluated using those criteria, granted a score, and ranked in a priority list that is published annually. Highest priority projects are funded first.

Each year, the Division of Wa-

ter evaluates rules, violations and trends that impact the water infrastructure community to ensure that relevant projects are prioritized for SRF funding. Even though some of the criteria and point structures have been modified, the fundamental program priorities remain unchanged.

For the DWSRF, priority continues to go to projects that address threats to public health and compliance with the Safe Drinking Water Act. Emphasis in the 2013 funding cycle will be on projects that address disinfection byproduct violations and prevention.

CWSRF priority projects will remain those that protect and enhance water quality and compliance with the Clean Water Act. Emphasis continues to be on projects that address combined and sanitary sewer overflows.

Sustainable and Green Infrastructure criteria for both SRF programs have been modified to include new "green" criteria, in-

creased points for asset management, and incentive points for project readiness.

The new ranking criteria will apply to project profiles submitted during the open Call for Projects beginning October 2011 through December 2011, and will be made available at the DOW web site water.ky.gov in September 2011. Projects submitted during this period will make up the 2013 DWSRF and CWSRF Project Priority Lists. Top-ranked projects will be invited to submit a loan application in August 2012.

As always, if you are interested in obtaining an SRF loan for a drinking water or wastewater infrastructure project, and would like further consultation on how to prepare a project profile, you may contact Anshu Singh at 502-564.3410 or anshu.singh@ky.gov for clean water; and Amanda Yeary at 502-564.3410 or amanda.yeary@ky.gov for drinking water.



Community Spotlight: Frankfort, Kentucky

Frankfort implements safer water treatment technology

By Alison Simpson

The city of Frankfort was growing increasingly anxious about its aging equipment, chemical feed facilities and water treatment plant built in 1976, and potentially hazardous treatment process involving disinfection by chlorine gas.

The gaseous chlorine tanks were stored in an open-air storage area, with 12-16-ton cylinders kept on site, and four ton cylinders online at any given time. The gas was blended with water and conveyed to application points. The process used an average of 450 pounds of chlorine gas and up to 1,000 pounds daily.

There were numerous potentially dangerous consequences with the chlorine gas disinfection process. With chlorine gas being delivered by truck monthly, there was the potential for accidental chemical release, and person-

nel had to be trained in OSHA and risk management as well as handling hazardous materials. Employees responsible for handling the chlorine storage tanks were exposed to all the dangers and risks associated with chlorine gas.

A chlorine gas leak had the potential of affecting a seven-mile radius. This radius included the state capitol, all state office buildings, governmental offices, schools, the hospital, and part of Woodford County, as well as many private residences and businesses.

In addition, the fact that the terrorist group Al Qaeda used chlorine gas for dirty bombs created a concern that there could be a breach in security at the plant and the gas used in some type of terrorist activity.

David Billings, chief water engineer for the Frankfort Plant Board (FPB), related



Photo courtesy of the Frankfort Plant Board

Construction began on the site in the Spring of 2009.

numerous incidents in Kentucky and other states where chlorine gas leaks caused sickness and even fatalities. In addition, chlorine gas at water treatment plants has been a hot topic for several years now. Legislators have also proposed and debated the use of chlorine gas in water treatment because of the potential dangers. Billings clarified that Frankfort was motivated by safety factors, rather than the possibility of pending legislation.

In 2007, the FPB commissioned a study to evaluate alternative disinfection processes. Among those considered were: (1) adding a leak scrubber to the existing chlorine gas system, (2) using trucked-in 12.5 percent sodium hypochlorite, (3) using on-site-generated (OSG) 0.8 percent sodium hypochlorite solution, (4) using OSG 12.5 percent sodium hypochlorite, and (5) using a tablet chlorination system.

Using a step-wise approach to selecting the most appropriate technology for

their system, FPB chose the OSG 0.8 percent sodium hypochlorite as the best solution.

In addition to installing the new on-site generation equipment, the city rehabbed their chemical feed facilities in order to separate the various chemicals and provide adequate storage and chemical containment areas.

The project has reduced the risk to the staff and the community while improving the public health. It has also increased the efficiency and effectiveness of their water treatment.

The \$6.7 million cost to complete the project was funded entirely by a DWSRF loan at one percent interest.



Photo courtesy of the Frankfort Plant Board

The new building, equipment, and chemical feed facility rehab was completed in spring of this year.



News You Can Use

The 2013 Call for Projects period approaching

The 2013 Call for Projects period will begin in October and continue to December. A firm set of dates will be announced soon.

Staff of DOW and KIA suggest that any entities wishing to submit a project for the 2013 funding cycle should update their profiles in anticipation of the Call for Projects period.

There will be training provided to the Area Development Districts on Sept. 6-8 to show how to complete project profiles and submit projects through the Water Resource Management system.



We need your help!

Do you have an idea or suggestion for a future issue of *The Stream Line* or know someone to add to our mailing list? Contact Alison Simpson at alison.simpson@ky.gov. Please forward this newsletter to others who may be interested!

SRF Binding Commitments, June to Sept. 2011

June 2011—No KIA Board Meeting

July 2011

Fund A (Clean Water)

- Oldham Co. Environmental Authority-increase to \$2,400,000
- Oldham Co. Environmental Authority-\$400,000

Fund F (Drinking Water)

- Breathitt Co. Water District-\$2,500,000

August 2011

Fund A (Clean Water)

- Southern Water & Sewer-\$850,000

Fund F (Drinking Water)

- Columbia-Adair-\$1,500,000

September 2011—No KIA Board Meeting



The Stream Line

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